

### Abstract

An identification system for tracking wafer carriers within a manufacturing facility. The system uses smart card technology in which an identification card is placed on each wafer carrier. The smart cards have memory for storing information about the wafer carrier.

- 5 Power is transmitted to the card along with data so that the smart card does not require a separate power source. The devices for communicating with the smart cards can be stationary or they can be portable hand-carried devices. A network connects the readers to a central database.